```
Trying 11180...Open
```

PLEASE ENTER HOST PORT ID: PLEASE ENTER HOST PORT ID: X

LOGINID: d183glk

PASSWORD:

TERMINAL (ENTER 1, 2, 3, 4, OR ?): \square 3

Welcome to MESSENGER (APS Text) at USPTO The USPTO production files are current through: JUNE 9 1998 for U.S. Patent Text Data. JUNE 9 1998 for U.S. Current Classification data. JUNE 9 1998 for U.S. Patent Image Data. * PLEASE USE 305-9000 FOR NEW TELEPHONE NUMBER * * More U.S. patent data is now available on APS. The new * USOCR file contains patents issued in 1970, plus some * patents that were missing from the USPAT file. See the * Patents News Folder under the Public Folders in e-mail for * more information on using the new file. Thank you. DISCLAIMER: * Neither the United States Government, nor any agency thereof, nor any of their contractors, subcontractors or employees make any warranty, expressed or implied, including any warranty of marketability of fitness for a particular purpose; nor assumes any legal liability or responsibility for any party's use, or the results of such, of the data. Help Desk --> 703-305-9000 The Help Desk is staffed for APS support 7 days/week. Monday through Friday: 6:30am - 9:00pm Saturday, Sunday, Holidays: 8:30am - 5:00 pm The Help Desk staff at this number will handle all APS related questions. >>>>>> NEW SUNDAY HOURS !!! <<<<<< The APS is available: 6:30am - 9:00pm Monday through Friday 7:30am - 5:00pm Saturday, Sunday, Holidays APS is unavailable Thanksgiving Day, Christmas Day, and New Year's Day.

FILE 'USPAT' ENTERED AT 17:26:37 ON 15 JUN 1998

=> s starch(W)azure

73314 STARCH
346 AZURE
L1 14 STARCH(W)AZURE

=> d L1 1-14

- 1. 5,741,767, Apr. 21, 1998, Peracid based dishwashing detergent composition; John Richard Nicholson, et al., 510/220; 134/25.2; 510/221, 223, 226, 227, 229, 230, 372, 374, 375, 392, 393, 441 [IMAGE AVAILABLE]
- 2. 5,683,977, Nov. 4, 1997, Dry cleaning system using densified carbon dioxide and a surfactant adjunct; Sharon Harriott Jureller, et al., 510/286; 8/137, 142; 510/285, 291, 466 [IMAGE AVAILABLE]
- 3. 5,676,705, Oct. 14, 1997, Method of dry cleaning fabrics using densified carbon dioxide; Sharon Harriott Jureller, et al., 8/142, 111; 510/285, 286, 288, 289, 290, 291 [IMAGE AVAILABLE]
- 4. 5,620,880, Apr. 15, 1997, Protease deletion; Alan Sloma, et al., 435/172.3; 424/93.2; 435/222, 252.31, 252.5 [IMAGE AVAILABLE]
- 5. 5,610,010, Mar. 11, 1997, Process and apparatus for fragmenting biomaterials; Stefan J. Surzycki, et al., 435/6; 239/338; 422/99, 243; 435/283.1, 285.1; 935/19 [IMAGE AVAILABLE]
- 6. 5,589,383, Dec. 31, 1996, Protease deletion; Alan Sloma, et al., 435/252.31, 221, 320.1; 536/23.2 [IMAGE AVAILABLE]
- 7. 5,506,100, Apr. 9, 1996, Process and apparatus for fragmenting biomaterials; Stefan Surzycki, et al., 435/6; 239/338; 422/99, 243; 435/283.1, 285.1; 935/19 [IMAGE AVAILABLE]
- 8. 5,212,070, May 18, 1993, Secretory signal selection vectors for extracellular protein synthesis in Bacilli; Hilde E. Smith, et al., 435/69.1, 172.3, 252.31, 252.33, 320.1; 530/300; 536/23.7; 935/6, 29, 41, 48, 56, 60, 73, 74, 82 [IMAGE AVAILABLE]
- 9. 5,171,673, Dec. 15, 1992, Expression of heterologous DNA using the bacillus coagulans amylase gene; Alan Sloma, et al., 435/69.1, 172.3, 202, 252.3, 252.31, 320.1; 935/27, 29 [IMAGE AVAILABLE]
- 10. 5,037,760, Aug. 6, 1991, Secretory signal selection vectors for extracellular protein synthesis bacilli; Hilde E. Smith, et al., 435/320.1, 69.1, 69.8, 91.41, 172.1, 252.31, 252.33, 252.5; 530/300; 536/23.1, 23.7; 935/6, 29, 48, 56, 60, 74, 82 [IMAGE AVAILABLE]
- 11. 5,024,941, Jun. 18, 1991, Expression and secretion vector for yeast containing a glucoamylase signal sequence; Gregory T. Maine, et al., 435/69.9, 69.1, 69.8, 202, 203, 204, 205, 254.21, 320.1; 536/23.2, 23.4; 935/47, 48 [IMAGE AVAILABLE]
- 12. 5,017,477, May 21, 1991, Enhancing DNA sequencies derived from the sacQ gene; Alan Sloma, et al., 435/69.1, 172.3, 252.31, 320.1; 935/38, 74 [IMAGE AVAILABLE]
- 13. 4,927,644, May 22, 1990, Preferential entrainment of enzymes in

cheese curds; Michael V. Arbige, et al., 426/35, 36, 40, 582 [IMAGE AVAILABLE]

14. 4,769,327, Sep. 6, 1988, Secretion vector; Michael A. Stephens, et al., 435/69.8, 69.1, 69.4, 172.3, 252.31, 252.33, 252.35, 320.1; 930/50, 120, 200, 240, 300, 310; 935/11, 14, 29, 47, 48, 73, 74, 75 [IMAGE AVAILABLE]

=> d L1 14 kwic

US PAT NO: 4,769,327 [IMAGE AVAILABLE] L1: 14 of 14

DETDESC:

DETD (53)

Amylase activity of the pCR13-encoded .alpha.-amylase, which contained an additional glycine-serine at its carboxy-terminal end, was determined by a starch-azure plate assay, carried out as follows. Petri dishes containing a bottom layer of nutrient agar and a top layer of nutrient agar containing blue-colored starch azure as an indicator were prepared by first pouring nutrient agar (1.5% agar) into each dish, allowing that layer to solidify,. . . first layer, a top layer (1/3 the volume of the petri dish) containing nutrient agar (1.5% agar) and 0.5% (w/v) starch azure (Sigma Cat. No. 57629) and allowing the top layer to solidify. After drying to remove excess moisture, cells were spread. . . hours. Colonies containing cells secreting amylase were detected by the appearance of clear halos on a background of blue colored starch azure in the top layer. This two-layer system was found to provide greater sensitivity than systems in which the starch azure is distributed throughout all of the nutrient agar on the plate.

DETDESC:

DETD (54)

The . . . of the pCR13-encoded .alpha.-amylase did not appear to affect amylase activity, as judged by the size of halos on the **starch** azure medium described above, although the presence of additional amino acids at the carboxy-terminal end of .alpha.-amylase often does result in some reduction of halo size. Thus measurement of halo size of transformants on **starch azure** agar plates can be used, as it was for the alkaline phosphatase gene in pCR25, below, as a preliminary screen. . .

DETDESC:

DETD (56)

The . . . and alkaline phosphatase activity using the two-layer plates described above. Of 59 transformants screened, 42% has reduced halo diameters on **starch azure** plates. Approximately half of those transformants that displayed reduced halo sizes also made alkaline phosphatase, as measured by blue halos on X-P plates. No transformants were found that displayed alkaline phosphatase activity without concomitant **starch azure** halo reductions. One transformant that had a reduced halo size and made alkaline phosphatase contained plasmid pCR25.

=> s amylopectin(W)azure

1979 AMYLOPECTIN

=> d L2 1-5

- 1. 5,395,927, Mar. 7, 1995, DNA-fragment having the cyclodextrin glycosyltranferase gene; August Bock, et al., 536/23.2; 435/6, 15, 91.1; 536/23.1, 24.1, 24.32; 935/9, 14, 19 [IMAGE AVAILABLE]
- 2. 5,334,502, Aug. 2, 1994, Method of collecting, identifying, and quantifying saliva; Jangbir S. Sangha, 435/7.21; 422/55, 56, 57, 58, 947; 435/4, 5, 25, 28, 805, 967, 974; 436/164, 165, 169, 518, 528, 530, 805, 810; 600/573, 582, 584; 604/1 [IMAGE AVAILABLE]
- 3. 5,077,011, Dec. 31, 1991, Dry analytical element containing self-developing substrate for use in analysis of liquid; Yoshikazo Amano, et al., 422/56, 57, 58; 435/4, 21; 436/170 [IMAGE AVAILABLE]
- 4. 4,435,429, Mar. 6, 1984, Processing aqueous treated cereals; Vernon D. Burrows, et al., 426/18, 331, 463, 471, 482, 507, 553, 573, 589, 622, 626 [IMAGE AVAILABLE]
- 5. 4,144,306, Mar. 13, 1979, Element for analysis of liquids; John Figueras, 422/56; 435/14, 22; 436/95, 170 [IMAGE AVAILABLE]

=> d L2 4 kwic

US PAT NO:

4,435,429 [IMAGE AVAILABLE]

L2: 4 of 5

DETDESC:

DETD(30)

Alpha-amylase . . . ground to fine suspension in 10 ml of incubation medium (0.5% NaCl and 0.2% CaCl.sub.2 in water) containing 5 mg amylopectin azure. 2.5 cSt. Both assays were conducted with 0.2% .beta.-glucan in dimethyl sulfoxide at room temperature. The lower viscosity of steeped. . .

DETDESC:

DETD (33)

Alpha-amylase . . . ground to fine suspension in 10 ml of incubation medium (0.5% NaCl and 0.2% CaCl.sub.2 in water) containing 5 mg amylopectin azure. The suspensions were placed in test tubes and 1.0 ml of toluene was added to each tube to inhibit microbial. . .

=> s amylose(W)azure

3148 AMYLOSE 346 AZURE

L3 2 AMYLOSE (W) AZURE

=> d L3 1-2

- 1. 4,927,644, May 22, 1990, Preferential entrainment of enzymes in cheese curds; Michael V. Arbige, et al., 426/35, 36, 40, 582 [IMAGE AVAILABLE]
- 2. 4,284,722, Aug. 18, 1981, Heat and acid-stable alpha-amylase enzymes

and processes for producing the same; Masaki Tamuri, et al., 435/94; 426/48; 435/96, 99, 202, 832 [IMAGE AVAILABLE]

=> d L3 1-2 kwic

US PAT NO: 4,927,644 [IMAGE AVAILABLE]

L3: 1 of 2

DETDESC:

. . . .

DETD (32)

+ + + + + + Coomassie Blue + + + + + + Starch Azure - - + + Cellulose Azure - - + + Amylose Azure - - + + Celite 577 (filter aid) - - + Activated Carbon

Dyed Milk Protein. .

US PAT NO:

4,284,722 [IMAGE AVAILABLE]

L3: 2 of 2

DETDESC:

DETD (95)

The . . . position of the alpha-amylases of the present invention on the polyacrylamide gel was determined by putting the gel on an **Amylose-Azure** agar plate and incubating it at 37.degree. C. The results of this test are illustrated in FIG. 8.

DETDESC:

DETD(107)

Slant	Plate	Seed	Main
Soluble starch			
1.0	3.0		
Corn Starch			
			6.0
Amylose azure			
	0.1	- -	
CSL*			1.0
Bacto-tryptone			
0.5	0.5		
Yeast ext. 0.5	0.5.		

DETDESC:

DETD(109)

For . . . the plate medium and culturing overnight at 70.degree. C. Clear zones around the colonies were formed by hydrolysis of the amylose azure in the plate medium.